

Title (en)

ORGANIC LIGHT-EMITTING DIODE DISPLAY DEVICE, MANUFACTURING METHOD THEREOF, AND DISPLAY APPARATUS

Title (de)

VORRICHTUNG MIT ORGANISCHER LICHEMITTIERENDEN ANZEIGE, HERSTELLUNGSVERFAHREN DAFÜR UND ANZEIGEVORRICHTUNG

Title (fr)

DISPOSITIF D'AFFICHAGE À DIODES ÉLECTROLUMINESCENTES ORGANIQUES, PROCÉDÉ DE FABRICATION ASSOCIÉ, ET APPAREIL D'AFFICHAGE

Publication

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Application

EP 15851648 A 20150918

Priority

- CN 201510087042 A 20150225
- CN 2015089925 W 20150918

Abstract (en)

[origin: WO2016134595A1] An organic light-emitting diode (OLED) display device, a manufacturing method thereof, and a display apparatus containing the OLED display device. A pattern of an anode layer(001,200) is formed over a base substrate(002,100). A graphene oxide layer(300) is formed over the pattern of the anode layer(001,200) by an electroplating process. The graphene oxide layer(300) is used as an auxiliary layer or is used as at least one of a hole injection layer and a hole transport layer in the OLED display device. Since the graphene oxide material has high work function, the hole injection voltage barrier may be reduced and the hole injection and hole transport capability of the OLED display device may be enhanced to improve light emitting performance of the OLED display device.

IPC 8 full level

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Citation (search report)

- [XY] CN 103824975 A 20140528 - SHANGHAI EVERDISPLAY OPTRONICS CO LTD
- [YA] CN 102583354 A 20120718 - UNIV HEFEI TECHNOLOGY
- See also references of WO 2016134595A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

CN 2015089925 W 20150918; CN 201510087042 A 20150225; EP 15851648 A 20150918; US 201515031251 A 20150918